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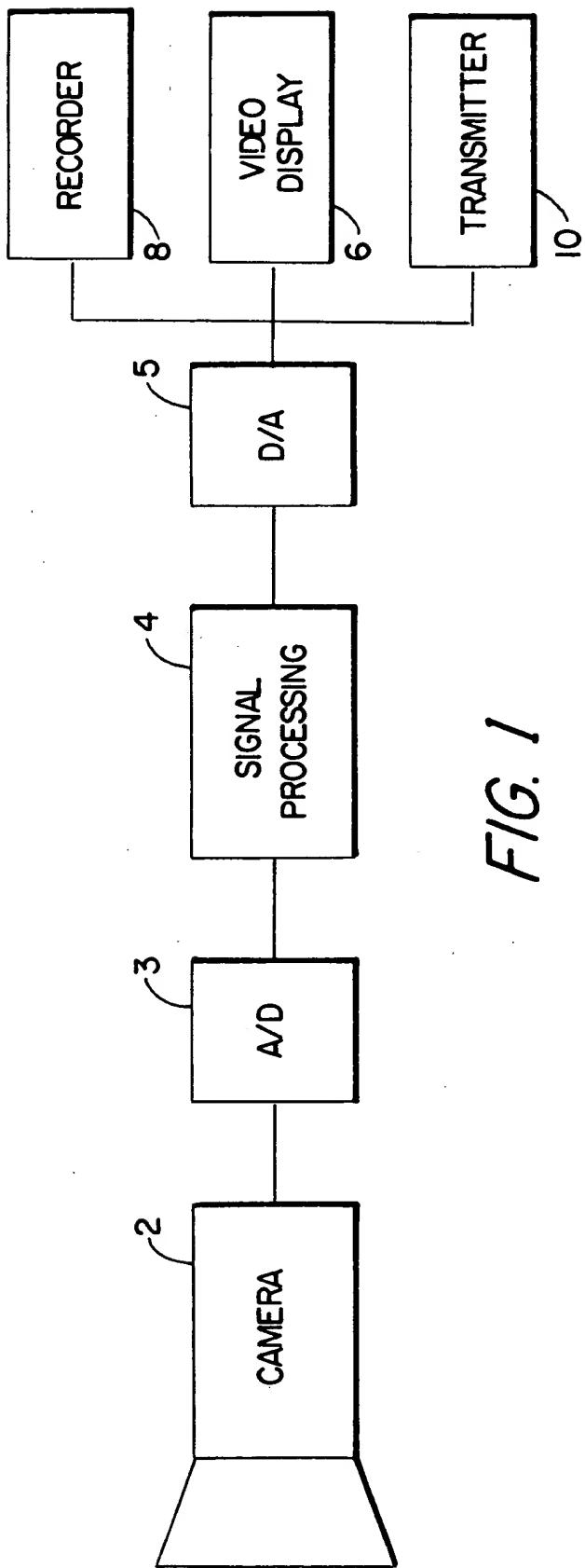


FIG. 1

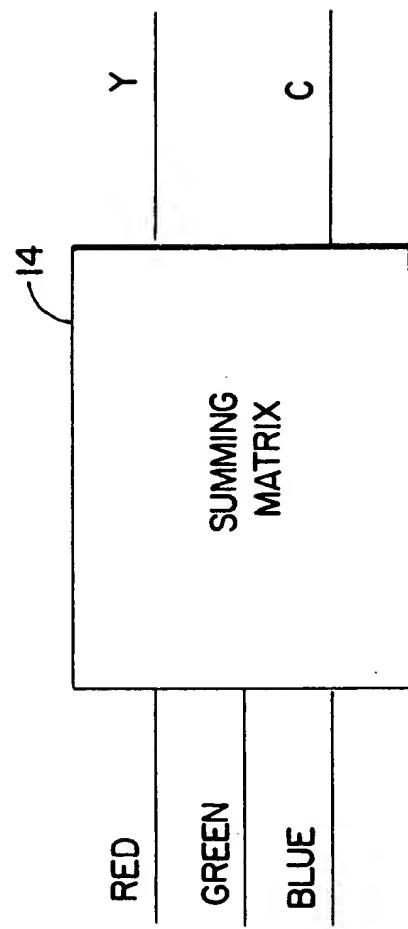


FIG. 2

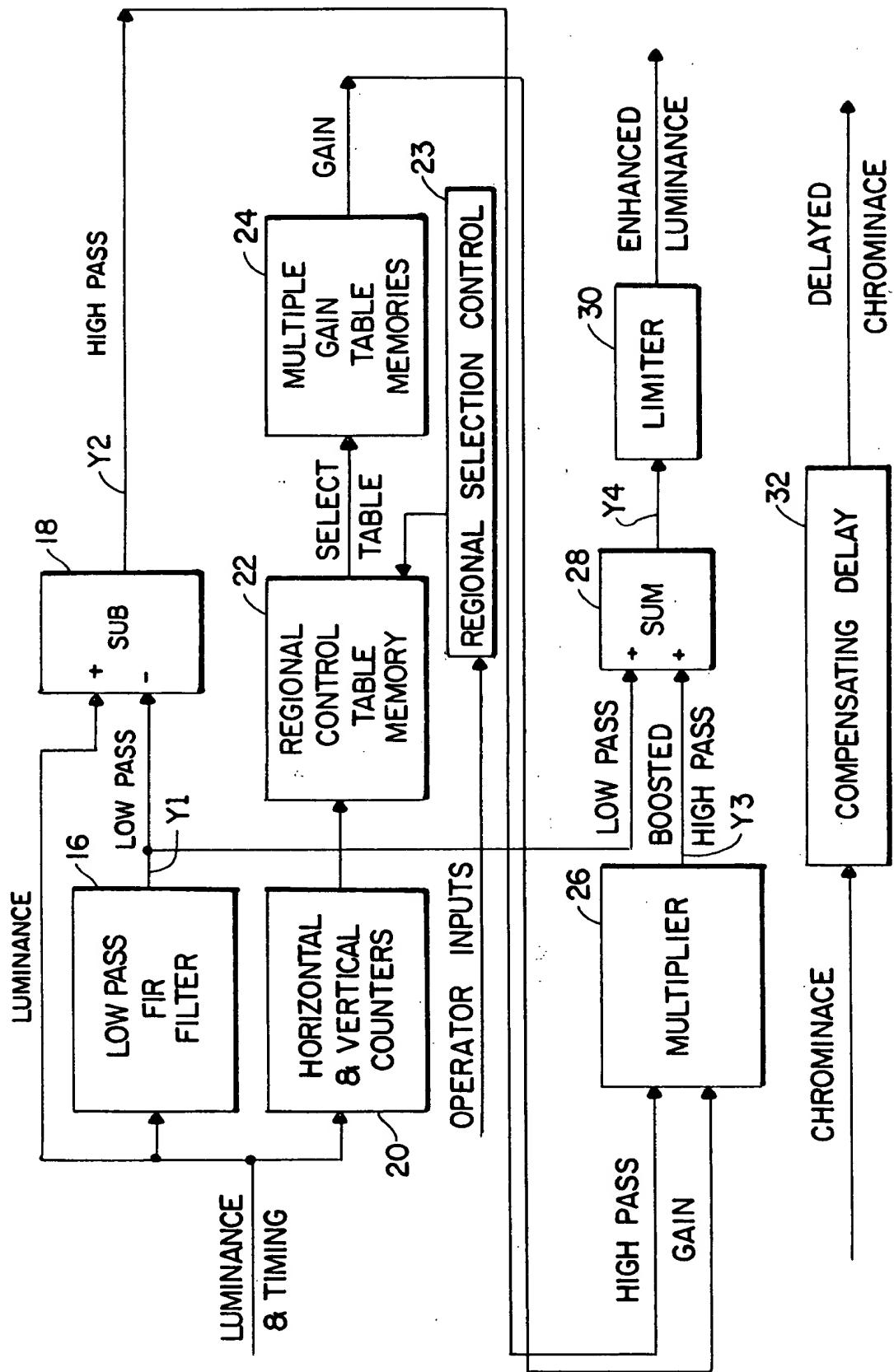
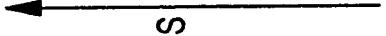


FIG. 3

## GAIN TABLE MEMORY EXAMPLES

(WHITE)	0.0
	0.0
	0.0
	0.0
	0.0
	0.0
	0.0
	0.0
	0.0
(BLACK)	0.0

LOW PASS  
VALUES



GAIN TABLE 0  
ALL VALUES = 0

GAIN TABLE 1  
ALL VALUES = 0.5

GAIN TABLE 2  
ALL VALUES = 1.0

GAIN TABLE 3  
ENHANCEMENT  
LEVEL 1

0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5

1.0
1.0
1.0
1.1
1.1
1.1
1.2
1.2
1.3
1.3

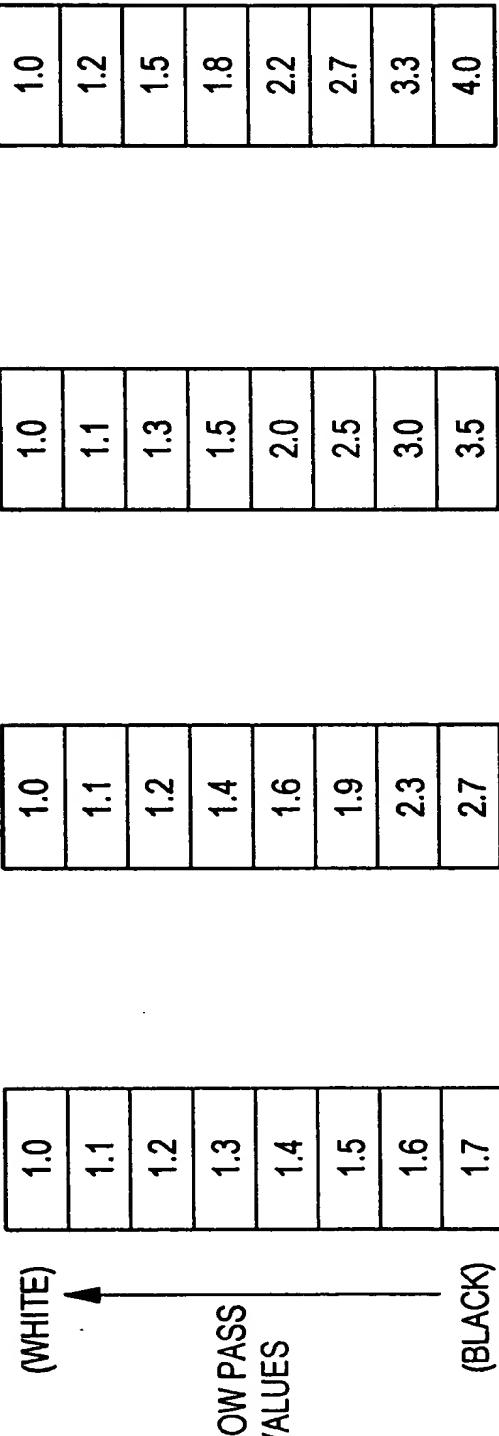
FIG. 4A

FIG. 4B

FIG. 4C

FIG. 4D

## GAIN TABLE MEMORY EXAMPLES



GAIN TABLE 4  
ENHANCEMENT  
LEVEL 2

GAIN TABLE 5  
ENHANCEMENT  
LEVEL 3

GAIN TABLE 5  
ENHANCEMENT  
LEVEL 4

GAIN TABLE 7  
ENHANCEMENT  
LEVEL 5

FIG. 4E

FIG. 4F

FIG. 4G

FIG. 4H

REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 1

A 9x9 grid of numbers representing memory values. The grid is as follows:

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

A vertical arrow on the left side of the grid points upwards, labeled "VERT". A horizontal arrow at the bottom of the grid points to the right, labeled "HORIZ".

SMALL ENHANCED  
REGION SURROUNDED  
BY GAIN = 0 AREA

—→  
HORIZ

***FIG. 5A***

REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 2

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

LARGER ENHANCED  
REGION SURROUNDED  
BY GAIN = 0 AREA

HORIZ

***FIG. 5B***

REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 3

0	0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1	0
0	1	2	2	2	2	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	2	2	2	2	1	0
0	1	1	1	1	1	1	1	0
0	0	0	0	0	0	0	0	0

SMALL ENHANCED  
REGION SURROUNDED BY  
GRADUATED SOFTENING REGIONS

HORIZ

***FIG. 5C***

REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 4

7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2

↑  
VERT

SPLIT SCREEN  
LEFT SIDE ENHANCED  
RIGHT SIDE GAIN = 1

→  
HORIZ

**FIG. 5D**

REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 5

A 9x9 grid of memory cells, each containing the number '7'. To the left of the grid, a vertical arrow points upwards with the label 'VERT' below it. Below the grid, a horizontal arrow points to the right with the label 'HORIZ' above it.

7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7

FULL SCREEN ENHANCED

HORIZ

**FIG. 5E**